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Personnel and Organization

1. On account of behavior allegedly harmful to the organization, Schröder, the chief translator and assistant to the Russian Director General had to resign. As successor, an assistant of the Central Committee of the SED, Senger, was designated. On the same basis, Chief of Personnel, Hamusek, was relieved of his job. His former deputy, Justmann, was named as his successor. Dr. Gemsa, the scientific director of the Wire Factory and Herr Hecht, the scientific assistant in the production of special tubes, have also resigned.

2. Dr. Teucke, the former assistant of the Seibt firm, Berlin, is now patent lawyer for the SMA.
3. In Berlin-Buch, courses in business management lasting eight days are given for managers of the VEBs. The former Youth Secretary of the FDJ, Hermann Müller, is the director of this program. A class is comprised of about fifteen members. They are instructed by six tutors in all phases of management of East Zone planned economy, and in addition, receive political indoctrination. The political instruction amounts to ideological preparation for the coming proletarian revolution. For this purpose, three cadres are formed, for political, military, and economic training lasting three months. The political courses are given in Kaulsdorf (Z 95), the military courses are given in the barracks of the Volkspolizei and the economic courses are given in the former Gewerkschaftschule in Bernau.

The difficulties which are expected in the coming fall elections will be taken care of by the political and military cadres. The military cadres have a special task to carry out in the civil war with the West, which, it is expected, will be unavoidable. The political cadres are to take over the administration, and the economic cadres the key positions within the economy.

4. From 1 January 1950 on, the OSW is to maintain itself from its own resources. Thus payment of wages will be about six to ten days behind schedule.
5. The newly formed firm INB was separated from the OSW and independently incorporated in the combine. The personnel is to be increased to 2,000.

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Production and Development

6. All experimental projects for 1950 at OSW were cancelled by Moscow for security reasons. Only the projects which were carried over from 1949 are to be completed. Among the smaller orders distributed to OSW is an order for a special tube and its theory. It concerns a hydrogen thyatron tube with extra short extinction time of 10^{-8} seconds and a small control delay of 4×10^{-9} seconds. At the same time a treatise of the physics of the short extinction time is to be written.
7. The government so far allotted experimental and development projects in the amount of 15 million DM (East) only, so that the staff of the experimental plant must be reduced by about one half.
8. The Ministry of the Interior has placed an order for the development and production of 100 police transmitters.
9. Ten electron microscopes as show samples were to be built among other things for the Leipzig fair. The idea is to drive the rising West German production off the market and to make the West European market accessible to the East Zone.
10. Experiments in the supersonic field were considerably limited after the Russians found entire German particulars on the subject in Steinbach/Thuringia. Several boxes of these reports and investigation notes were transported to Moscow.
11. Experiments in plant and animal biology are being continued as well as investigations in the field of metallurgy.
12. Production in 1949

In the past year the following production rate was reached (without reparations)

Radio tubes	5,000,000 DM
Special tubes	3,500,000 DM
Wolfram and molybdenum products	1,200,000 DM
Other products (parts, lamps)	1,100,000 DM

The value of production of the additional reparations amounted to about 4,000,000 DM (East).

For experiments and developments, the testing plant had 3,600,000 DM (East) at its disposal, of which 2,500,000 DM were for Russian orders.

For the first quarter of 1950 the Russians have placed the following orders.

Radio tubes	1,500,000 DM (East)
Special tubes	1,000,000 " "
Wolfram and molybdenum products	500,000 " "
Miscellaneous	400,000 " "

A final production plan for 1950 was not set up.

13. Now as before, there is a shortage of production materials normally supplied from the West such as ammonium hydrochlorate, lead sheets, asbestos paper, spiral drills of 0.1 mm, 0.3 mm, and 0.5 mm, electrolytic copper, special tools of hard metal for the wire factory, and rare gases. There are plans to begin the production of rare gases at the Pintsch Firm.

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14. Since the departure of Dr. Urtel, the developer of the transmitter tube, there has been no success in removing the difficulties which exist in the amalgamation of glass with metal. Difficulties are also being encountered in the production of nickel sheets. On the other hand, cathode and emission pastes can be produced readily. Since the drawing process cannot be mastered easily, it has been impossible thus far to eliminate the difficulties which arise through breaking and cracking during the wire-drawing process. With the production of wolfram or molybdenum spirals the occurrence of defective materials fluctuates from 75% to 100%.

Comparison of OSW Tubes with Other German Tubes

15. 6 AC 7 (OSW 2190)

The high amplification high frequency pentode 6 AC 7 has been especially developed for initial stages of broad band and ultra short wave amplifiers, for example, of television receivers. It corresponds to the German tube EF 14. In substituting the EF 14 by the 6 AC 7, the cathode resistance has merely to be changed from 300 ohms to 160 ohms.

16. 6 AG 7 (OSW 2192)

The tube 6 AG 7 is a high amplification high frequency pentode for output stages of the wide band and ultra short wave amplifiers, for example, of television receivers. It can replace the EL 11 although its output is somewhat smaller.

17. 6 SA 7 (OSW 3104)

The heptode 6 SA 7 is an adjustable mixer. Since it has no oscillator anode, auto-excitation is only possible by back-coupling via the cathode (Eco circuit). To avoid frequency displacements in the short wave field, it is convenient to use a separate oscillator tube (for instance, 6 J 5. There is no comparable tube of German design. However, the 6 SA 7 can be used with appropriate circuit changes as a substitute for EK 2, EK 3, or ECH 11.

18. 6 J 5 (OSW 3112)

The triode 6 J 5 is used in connection with the 6 SA 7 as oscillator tube in frequency changers. On account of its small internal resistance it is especially adaptable for use as a generator in counter contact B amplifier. It is equivalent to the German type EC 2 or EF 12 in the triode connection.

19. 6 SQ 7 (OSW 3105)

The duodiode triode 6 SQ 7 with a high amplification factor serves for high frequency or intermediate frequency rectification and regulating tension generation with connecting low frequency reamplifier. It corresponds essentially to the German tubes EBC 11 and is also usable as a substitute for the EBF 11, in which case, however, the low frequency regulator must be discarded.

20. 6 SK 7 (OSW 3111)

The regulating pentode 6 SK 7 is used as high frequency, intermediate frequency and low frequency amplification tube. It can be used as a substitute for the EF 11 and the EF 13.

21. 6 E 5 (OSW 3110)

The electric eye tube 6 E 5 with a shadow angle of 0 ... 90°, can be used as substitute for the EF 11 and EF 13.

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22. 6 V 6 (OSW 3106)

The output pentode 6 V 6 is equivalent to the EL 11. In substituting the EL 11 with the 6 V 6 the cathode resistance merely has to be changed.

23. 6 L 6 (OSW 3108)

The output pentode 6 L 6 is equivalent to EL 12. In substituting the EL 12 by the 6 L 6, only the cathode resistance has to be altered.

24. 6 H 6 (OSW 3109)

The 6 H 6 is a duodiode with two separate cathodes. It can therefore be used in superhets for automatic fine tuning or similar special circuits. The 6 H 6 allows the reception of greater current than the German counterpart EB 11.

25. 5 Z 4 (OSW 3107)

The 5 Z 4 is a full wave rectifier tube similar to the EZ 12. In interchanging them, one should watch out for the lower filament voltage (5 V) and the higher heating current (1.6 a). All the above tubes have an octagonal socket.

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